

Patent  
Attorney's Docket No. 028723-060

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

GRAY et al

Application No.: 08/477,316

Filed: June 7, 1995

For: CHROMOSOME-SPECIFIC STAINING  
TO DETECT GENETIC  
REARRANGEMENTS (AS AMENDED)

Group Art Unit: 1631

Examiner: A. Marschel

#34/F

Plunkett  
8/27/01

FAX received  
PM, 8/27/01

**AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Please amend the above-cited application as follows:

**IN THE SPECIFICATION**

Please replace the title of the application with the amended title shown below:

**CHROMOSOME-SPECIFIC STAINING TO DETECT GENETIC REARRANGEMENTS**

**IN THE CLAIMS**

Please replace claims 1, 48 and 50 with the amended claims shown below:

1. (Five times Amended) A method of staining targeted interphase chromosomal material based upon a nucleic acid segment employing a unique sequence high complexity nucleic acid probe of greater than about 50,000 bases, wherein said targeted chromosomal material is a genetic rearrangement associated with at least one chromosome in humans, said method comprising employing said chromosomal material and a unique sequence high complexity nucleic acid probe of greater than about 50,000 bases in *in situ* hybridization,

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